

7. Prove the validity of the extended Euclid algorithm.

```
def euclidExtended(a, b):  
    """ INPUT: Two integers a and b with a >= b >= 0  
        OUTPUT: Integers x, y, d such that d = gcd(a, b)  
        and d = ax + by"""  
    print ("    ", a, b) # so we can see the process.  
    if b == 0:  
        return 1, 0, a  
    x, y, d = euclidExtended(b, a % b)  
    return y, x - a//b*y, d
```

8. What became clear to you as a result of today's discussion? (or write N/A)

9. Is there anything from today's discussion that was unclear, do you have questions, or is there anything else you want to tell me? (or write N/A)